

104086

From: Landsman, Robert
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thanks

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Patent Examiner

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Other (specify): _____

Qy	245	GCGACTGCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCCCAGCACCTGGCTCCTGGCTCA	304
Db	241	GCGACTGCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCCCAGCACCTGGCTCCTGGCTCA	300
Qy	305	ACTTGTCACGTTGATGGCAACCAGTCCGATCCATGCGGTCTGAACCGCACCGGGCTTG	364
Db	301	ACTTGTCACGTTGATGGCAACCAGTCCGATCCATGCGGTCTGAACCGCACCGGGCTTG	360
Qy	365	GCGGGAACGACAGCCTGTGCCCTCAGACCGGCAGCCCTTCCATGGTCACAGCCATTACCA	424
Db	361	GCGGGAACGACAGCCTGTGCCCTCAGACCGGCAGCCCTTCCATGGTCACAGCCATTACCA	420
Qy	425	TCATGGCCCTCTACTCTATCGTGTGTGTAGTGGGCTCTTCGAAACTTCTGGTCATGT	484
Db	421	TCATGGCCCTCTACTCTATCGTGTGTGTAGTGGGCTCTTCGAAACTTCTGGTCATGT	480
Qy	485	ATGTGATTGTAAGATACACAAAATGAAGACTGCCACCAACATCTACATTTTCAACCTTG	544
Db	481	ATGTGATTGTAAGATACACAAAATGAAGACTGCCACCAACATCTACATTTTCAACCTTG	540
Qy	545	CTCTGGCAGACGCCTTAGCGACCAGTACACTGCCCTTTTTCAGAGTGTCAACTACCTGATGG	604
Db	541	CTCTGGCAGACGCCTTAGCGACCAGTACACTGCCCTTTTTCAGAGTGTCAACTACCTGATGG	600
Qy	605	GAACATGGCCCTTCGGAACCATCCTCTGCAAGATCGTGATCTCAATAGATTACTACAACA	664
Db	601	GAACATGGCCCTTCGGAACCATCCTCTGCAAGATCGTGATCTCAATAGATTACTACAACA	660
Qy	665	TGTTACACAGCATATTACCCCTCTGCACCATGAGCGTGGACCGCTACATTGCTGTCTGCC	724
Db	661	TGTTACACAGCATATTACCCCTCTGCACCATGAGCGTGGACCGCTACATTGCTGTCTGCC	720
Qy	725	ACCCAGTCAAAGCCCTGGATTTCCTGACCCCCGAAATGCCAAAATCGTCAACGTCTGCA	784
Db	721	ACCCAGTCAAAGCCCTGGATTTCCTGACCCCCGAAATGCCAAAATCGTCAACGTCTGCA	780
Qy	785	ACTGGATCCTCTCTTCTGCCATCGGTCTGCCTGTAATGTTTCATGGCAACCACAAAATACA	844
Db	781	ACTGGATCCTCTCTTCTGCCATCGGTCTGCCTGTAATGTTTCATGGCAACCACAAAATACA	840
Qy	845	GGCAGGGGTCCATAGATTGCACCCCTCACGTTCTCCACCCAACCTGGTACTGGGAGAACC	904
Db	841	GGCAGGGGTCCATAGATTGCACCCCTCACGTTCTCCACCCAACCTGGTACTGGGAGAACC	900
Qy	905	TGCTCAAATCTGTGTCTTTATCTTCGCTTTTCATCATGCCGATCCTCATCATCACTGTGT	964
Db	901	TGCTCAAATCTGTGTCTTTATCTTCGCTTTTCATCATGCCGATCCTCATCATCACTGTGT	960
Qy	965	GTTACGGCCTGATGATCTTACGACTCAAGAGCGTTCGCATGCTATCGGGCTCCAAAGAAA	1024
Db	961	GTTACGGCCTGATGATCTTACGACTCAAGAGCGTTCGCATGCTATCGGGCTCCAAAGAAA	1020
Qy	1025	AGGACAGGAATCTGCGCAGGATCACCCGGATGGTGTGGTGGTTCGTGGCTGTATTTATCG	1084
Db	1021	AGGACAGGAATCTGCGCAGGATCACCCGGATGGTGTGGTGGTTCGTGGCTGTATTTATCG	1080
Qy	1085	TCTGCTGGACCCCCATCCACATCTACGTCATCATCAAAGCGCTGATCACGATTCCAGAAA	1144
Db	1081	TCTGCTGGACCCCCATCCACATCTACGTCATCATCAAAGCGCTGATCACGATTCCAGAAA	1140
Qy	1145	CCACATTTAGACCGTTTCTGGCACTTCTGCATTGCTTTGGGTTACACGAACAGCTGCC	1204
Db	1141	CCACATTTAGACCGTTTCTGGCACTTCTGCATTGCTTTGGGTTACACGAACAGCTGCC	1200

Qy 1205 TGAATCCAGTTCTTTACGCCTTCCTGGATGAAAACTTCAAGCGATGCTTCAGAGAGTTCT 1264
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1201 TGAATCCAGTTCTTTACGCCTTCCTGGATGAAAACTTCAAGCGATGCTTCAGAGAGTTCT 1260
 Qy 1265 GCATCCCAACCTCGTCCACGATCGAACAGCAAACTCCACTCGAGTCCGTCAGAACACTA 1324
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1261 GCATCCCAACCTCGTCCACGATCGAACAGCAAACTCCACTCGAGTCCGTCAGAACACTA 1320
 Qy 1325 GGGAACATCCCTCCACGGCTAATACAGTGGATCGAACTAACCACCAGCTAGAAAATCTGG 1384
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1321 GGGAACATCCCTCCACGGCTAATACAGTGGATCGAACTAACCACCAGCTAGAAAATCTGG 1380
 Qy 1385 AGGCAGAAACTGCTCCATTGCCCTAACTGGGTCTCACACCATCCAGACCCCTCGCTAAGCT 1444
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1381 AGGCAGAAACTGCTCCATTGCCCTAACTGGGTCTCACACCATCCAGACCCCTCGCTAAGCT 1440
 Qy 1445 TAGAGGCCGCCATCTACGTGGAATCAGGTTGCTGTGTCAGGGTGTGTGGGAGGCTCTGGTTT 1504
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1441 TAGAGGCCGCCATCTACGTGGAATCAGGTTGCTGTGTCAGGGTGTGTGGGAGGCTCTGGTTT 1500
 Qy 1505 CCTGAGAAACCATCTGATCCTGCATTCAAAGTCATTCTCTGGCTACTTCACTCTGCA 1564
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1501 CCTGAGAAACCATCTGATCCTGCATTCAAAGTCATTCTCTGGCTACTTCACTCTGCA 1560
 Qy 1565 CATGAGAGATGCTCAGACTGATCAAG 1590
 ||||||||||||||||||||
 Db 1561 CATGAGAGATGCTCAGACTGATCAAG 1586

B

ID AAD11041 standard; cDNA; 1981 BP.
 XX
 AC AAD11041;
 XX
 DT 24-SEP-2001 (first entry)
 XX
 DE Murine delta opioid receptor (DOR-2) partial cDNA.
 XX
 KW Mouse; delta opioid receptor; DOR-2; analgesic; enkephalin;
 KW opioid addiction; anti-addictive; ss.
 XX
 OS Mus sp.
 XX
 PN US6265563-B1.
 XX
 PD 24-JUL-2001.
 XX
 PF 13-FEB-1995; 95US-0387707.
 XX
 PR 13-AUG-1992; 92US-0929200.
 XX
 PA (REGC) UNIV CALIFORNIA.
 XX
 PI Evans CJ, Keith DE, Edwards RH, Kaufman D;
 XX
 DR WPI; 2001-463944/50.
 XX
 PT Nucleic acids encoding mammalian kappa and mu opioid receptors, useful
 PT e.g. to identify substances for treating opioid addiction and/or useful
 PT as analgesics -
 XX
 PS Claim 7; Fig 9; 46pp; English.
 XX

CC The invention relates to recombinant nucleic acid molecules which encode
CC the murine delta opioid receptor, as well as recombinant nucleic acid
CC molecules which can be retrieved using low-stringency hybridisation to
CC this disclosed DNA. The invention provides genes encoding delta, kappa,
CC and mu receptors of any species containing genes encoding such receptors
CC sufficiently homologous to hybridise under low-stringency conditions.
CC The nucleic acids may be used to recombinantly express kappa and
CC mu opioid receptors in host cells. These cells may then be used in
CC assays to identify modulators of the receptors activity that may be
CC used, for example as analgesics or to combat the effects of opioid
CC addiction. The nucleic acids and their complements may also be used as
CC probe sequences to identify and characterise opioid receptor nucleic
CC acids. The present sequence is murine delta opioid receptor (DOR-2)
CC partial cDNA, mMOR-1.

SQ Sequence 1981 BP; 499 A; 550 C; 436 G; 495 T; 1 other;

Query Match 85.7%; Score 1386.4; DB 22; Length 1981;
Best Local Similarity 92.2%; Pred. No. 0;
Matches 1494; Conservative 0; Mismatches 122; Indels 5; Gaps 3;

Qy	2	GTGGAAGGGGGCTACAAGCAGAGGAGAATATCAGACGCTCAGACGTTCCCTTCTGCCTGC	61
Db	43	GTGGGAGGGGGGATACAAGCAGAGGAGAATATCGGACGCTCAGACGTTCCATTCTGCCTGC	102
Qy	62	CGCTCTTCTCTGGTTCCACTAGGGCTGGTCCATGTAAGAATCTGACGGAGCCTAGGGCAG	121
Db	103	CGCTCTTCTCTGGTTCCACTAGGGCTTGTCCTTGTAAGAACTGACGGAGCCTAGGGCAG	162
Qy	122	CTGTGAGAGGAAGAGGCTGGGGCGCGTGGAACCCGAAAAGTC-TGAGTGTCTCAGTTAC	180
Db	163	CTGTGAGAGGAAGAGGCTGGGGCGCCTGGAACCCGAACACTCTTGAGTGTCTCAGTTAC	222
Qy	181	AGCCTACCTAGTCCGCAGCAGGCCTTCAGCACCATGGACAGCAGCACCGGCCAGGGAAC	240
Db	223	AGNCTACCGAGTCCGCAGGAAGCATTAGAACCATGGACAGCAGCGCCGGCCAGGGAAC	282
Qy	241	ACCAGCGACTGCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCCCAGCACCTGGCTCCTGG	300
Db	283	ATCAGCGACTGCTCTGACCCCTTAGCTCCTGCAAGTTGCTCCCCAGCACCTGGCTCCTGG	342
Qy	301	CTCAACTTGTCCCACGTTGATGGCAACCAGTCCGATCCATGCGGTCTGAACCGCACCGGG	360
Db	343	CTCAACTTGTCCCACGTTGATGGAAACCAGTCCGACCCATGCGGTCTTAACCCGACGGGC	402
Qy	361	CTTGGCGGGAACGACAGCCTGTGCCCTCAGACCGGCAGCCCTTCCATGGTCACAGCCATT	420
Db	403	CTTGGCGGGAACGACAGCCTGTGCCCTCAGACCGGCAGCCCTTCCATGGTCACAGCCATC	462
Qy	421	ACCATCATGGCCCTCTACTCTATCGTGTGTGTAGTGGGCCTCTTCGAAACTTCTGGTC	480
Db	463	ACCATCATGGCCCTCTATTCTATCGTGTGTGTAGTGGGCCTCTTTGGAAACTTCTGGTC	522
Qy	481	ATGTATGTGATTGTAAGATACACAAAATGAAGACTGCCACCAACATCTACATTTTCAAC	540
Db	523	ATGTATGTGATTGTAAGATATACAAAATGAAGACTGCCACCAACATCTACATTTTCAAC	582
Qy	541	CTTGCTCTGGCAGACGCCTTAGCGACCAGTACACTGCCCTTTTCAAGTGTCAACTACCTG	600
Db	583	CTTGCTCTGGCAGATGCCTTAGCCACTAGCACGCTGCCCTTTTCAAGTGTGTTAACTACCTG	642

Qy	601	ATGGGAACATGGCCCTTCGGAACCATCCTCTGCAAGATCGTGATCTCAATAGATTACTAC	660
Db	643	ATGGGAACGTGGCCCTTTGGAAACATCCTCTGCAAGATCGTGATCTCAATAGACTACTAC	702
Qy	661	AACATGTTTCACCAGCATATTCACCCCTCTGCACCATGAGCGTGGACCGCTACATTGCTGTC	720
Db	703	AACATGTTTCACCAGTATCTTCACCCCTCTGCACCATGAGTGTAGACCGCTACATTGCCGTC	762
Qy	721	TGCCACCCAGTCAAAGCCCTGGATTTCGTTACCCCCGAAATGCCAAAATCGTCAACGTC	780
Db	763	TGCCACCCGGTCAAAGCCCTGGATTTCGTTACCCCCGAAATGCCAAAATTGTCAATGTC	822
Qy	781	TGCAACTGGATCCTCTCTTCTGCCATCGGTCTGCCTGTAATGTTTCATGGCAACCACAAA	840
Db	823	TGCAACTGGATCCTCTCTTCTGCCATTGGTCTGCCCGTAATGTTTCATGGCAACCACAAA	882
Qy	841	TACAGGCAGGGGTCCATAGATTGCACCCTCACGTTCTCCCACCCAACCTGGTACTGGGAG	900
Db	883	TACAGGCAGGGGTCCATAGATTGCACCCTCACGTTCTCTCATCCCACATGGTACTGGGAG	942
Qy	901	AACCTGCTCAAAATCTGTGTCTTTATCTTCGCTTTCATCATGCCGATCCTCATCATCACT	960
Db	943	AACCTGCTCAAAATCTGTGTCTTCATCTTCGCCTTCATCATGCCGGGCCCTCATCATCACT	1002
Qy	961	GTGTGTTACGGCCTGATGATCTTACGACTCAAGAGCGTTTCGCATGCTATCGGGCTCCAAA	1020
Db	1003	GTGTGTTATGGACTGATGATCTTACAGCTCAAGAGTGTCCGCATGCTGTCTGGGCTCCAAA	1062
Qy	1021	GAAAAGGACAGGAATCTGCGCAGGATCACCCGGATGGTGCTGGTGGTCGTGGCTGTATTT	1080
Db	1063	GAAAAGGACAGGAACCTGCGCAGGATCACCCGGATGGTGCTGGTGGTCGTGGCTGTATTT	1122
Qy	1081	ATCGTCTGCTGGACCCCCATCCACATCTACGTCATCATCAAAGCGCTGATCACGATTCCA	1140
Db	1123	ATTGTCTGCTGGACCCCCATCCACATCTATGTCATCATCAAAGCACTGATCACGATTCCA	1182
Qy	1141	GAAACCACATTTTCAGACCGTTTCCTGGCACTTCTGCATTGCCTTTGGGTTACACGAACAGC	1200
Db	1183	GAAACCACTTTCAGACTGTTTCCTGGCACTTCTGCATTGCCTTTGGGTTACACAAACAGC	1242
Qy	1201	TGCCTGAATCCAGTTCTTTACGCCTTCCTGGATGAAAACCTCAAGCGATGCTTCAGAGAG	1260
Db	1243	TGCCTGAACCCAGTTCTTTATGCGTTTCCTGGATGAAAACCTCAAACGATGTTTTAGAGAG	1302
Qy	1261	TTCTGCATCCCAACCTCGTCCACGATCGAACAGCAAACTCCACTCGAGTCCGTGAGAAC	1320
Db	1303	TTCTGCATCCCAACTTCTCCACAATCGAACAGCAAACTCTGCTCGAATCCGTCAAAC	1362
Qy	1321	ACTAGGGAACATCCCTCCACGGCTAATACAGTGGATCGAACTAACCACCAGCTAGAAAAAT	1380
Db	1363	ACTAGGGAACACCCCTCCACGGCTAATACAGTGGATCGAACTAACCACCAGCTAGAAAAAT	1422
Qy	1381	CTGGAGGCAGAAACTGCTCCATTGCCCTAACTGGGTCTCACACCATCCAGACCCTCGCTA	1440
Db	1423	CTGGAAGCAGAAACTGCTCCATTGCCCTAACTGGGTCCCACGCCATCCAGACCCTCGCTA	1482
Qy	1441	AGCTTAGAGGCCGCCATCTACGTGGAATCAGGTTGCTGTGAGGGTGTGTGGGAGGCTCTG	1500
Db	1483	AACTTAGAGGCTGCCATCTACTTGAATCAGGTTGCTGTGAGGGTTGTGGGAGGCTCTG	1542
Qy	1501	GTTTCCTGAGAAACCATCTGATCCTG--CATTCAAAGTCATTCTCTCTGGCTACTTCA	1557
Db	1543	GTTTCCTGAGAAAGCATCTGATCCTGCATCATTCAAAGTCATTCTCTCTGGCTA-TTCA	1601

